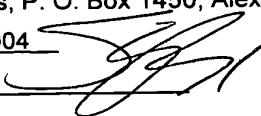


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Date: January 16, 2004

Signature: 

Stephen T. Belsheim

Type or Print Name of Person Certifying

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the application of: Heinrich et al.	)	GROUP ART UNIT	_____
Serial No. To Be Assigned	)	Examiner: _____	
Filed: January 16, 2004	)		
For: Fine-Grained Sintered Cemented	)		
Carbide, Process for Manufacturing and	)		
Use Thereof	)		
	)		

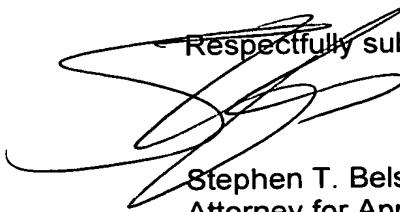
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**INFORMATION DISCLOSURE STATEMENT**

It is requested that the documents listed on the attached Form PTO/SB/08A and PTO/SB/08b be made of record in the above-identified application. To the extent now required, a copy of the non-US Patent documents are submitted herewith.

In the event applicant(s) has overlooked the need for any petition and fee for extension of time, and such extension is required, applicant(s) requests that this be considered a petition therefor and that such fee be charged to Deposit Account No. 02-2267.

  
Respectfully submitted,

Stephen T. Belsheim  
Attorney for Applicant(s)  
Registration No. 28,688  
Phone: 615-662-0100

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Suite 102  
Nashville, TN 37221  
Enclosures  
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**Substitute for form 1449/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

Sheet 1 of 2

**Complete if Known**

Application Number	
Filing Date	
First Named Inventor	Heinrich et al.
Art Unit	
Examiner Name	

Sheet 1 of 2

Attorney Docket Number KH-1794

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered
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Translation is attached.  
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	
				Filing Date	
				First Named Inventor	Heinrich et al.
				Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	KH-1794
<i>(Use as many sheets as necessary)</i>					

## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		EGAMI et al., "Ultra Submicron Hardmetals for Miniature Drills", Plansee Seminar '89', Vol.2, pp.53-70 12th Int'l Plansee Seminar	
		EGAMI et al., "Morphology of Vanadium Carbide in Submicron Hardmetals", 13th Int'l Plansee Seminar, Vol.3 pp. 639-648 (1993)	
		G. GILLE, et al., "A new 0.4 $\mu$ m WC powder as well as powder-related properties and sintering behavior of 0.6 to 30 $\mu$ m WC-Co hardmetals". Proceedings of the 14th Int'l Plansee Seminar AG Reutte (1997) Vol.2 pp. 139-167 HM12	
		D. F. CARROLL, "Processing and Properties of Ultrafine WC/Co Hard Metals", Dow Chemical Co., Proceedings of 14th Int'l Plansee Seminar, AG Reutte, (1997) Vol.2 pp. 168-182 HM14	
		J. ZACKRISSON et al. "WC-Co Based Cemented Carbides with Large Cr <sub>3</sub> C <sub>2</sub> Additions", Int'l Journal of Refractory Metal & Hard Metals 16(1998)pp. 417-422	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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